

## Angry exchange over MPs' right to know

by John O'Leary  
A further clash took place this week over MPs' rights to know civil servants' advice to the Secretary of State for Education, Mr. Mark Carlisle.

The exchange took place in the select committee on education which has already produced an interim report complaining of obstructions to its inquiries.

Mr. Carlisle intervened when Mr. Christopher Price, chairman of the committee, asked Ms Sheila Browne, HM Senior Chief Inspector, what advice had been given on the closure of the Centre for Educational Disadvantage in Manchester.

The Secretary of State said he did not wish to cover up any area but thought civil servants' advice to ministers was not subject to select committee scrutiny. Mr. Price insisted that there was no argument between Parliament and the Government and threatened to produce a second report on the subject.

Mr. Browne was not obliged to reply, but he reserved his right to ask her any questions. When pressed for an answer, she said she could not reveal the advice.

In the last year, the centre had

received fewer than two inquiries a day, the majority from students and mostly on the role of the centre. Fewer than one inquiry per week had been received from local education authorities, he said.

On the question of the shortage of teachers in mathematics and the physical sciences, a paper from the Department of Education and Science revealed that the number of vacancies in each subject had continued to rise in the past year in spite of government retraining schemes. The number of vacancies in 1980 for teachers of mathematics had risen to 599 from 466 in the previous year and in the physical sciences the 1980 figure was 597, compared with 417 in 1979.

Some 25,000 teachers who were qualified in mathematics, physics and chemistry were now teaching other subjects, and 17,000 were teaching in those subjects without qualifications. In physics, this represented 18 per cent of the total teaching force, and for mathematics 16 per cent.

The selection committee is meeting next week to finalise its report.

## Dyer inquiry faces Flowers backlash

by Ngalo Crequer

The flood of doubt hanging over the future of the Flowers report on London medical education may delay the work of the select committee on non-medical education and has led to speculation about the latter's usefulness.

The committee on academic organisation at London University, chaired by Sir Peter Swinnerton-Dyer, which is searching for substantial economies, next meets in September and will decide whether to issue an interim report.

So far the bulk of replies, about 150, have been returned to the committee in response to questionnaires and letters of inquiry about present

teaching and research capabilities, future goals and problems of resources.

But some respondents have said they need extra time or will need to revise their opinions depending on what happens to the Flowers recommendations.

The Flowers report, which recommended radical restructuring of London's medical schools, has met vociferous opposition and decisions on its future have been shelved at least until the autumn and it is unlikely that the main recommendations will be implemented.

The Swinnerton-Dyer committee faces a much more daunting task than Flowers because it extends into

every aspect of work at London in the light of what has happened in Flowers, many lecturers are questioning whether the inquiry is not a waste of time and money, as it would be expected to meet even stronger resistance to proposed substantial changes.

An added problem is the schools, in their written replies to the committee, have pointed out the strength of their institutions and the value of their departments. They have no hostages to fortune.

The committee has been asked to make its final report by the end of next year.



Porridge, reputedly the staple diet of prisoners in the Soviet Union, is ladled out on the steps of the Foreign and Commonwealth Office in Whitehall to highlight the plight of Jewish students detained in the USSR. Members of the "Competing for Freedom" campaign sponsored by the Union of Jewish Students and the Student and Academic Campaign for Soviet Jewry are seen above with MP Tim Sainsbury (second from right).

## Scots staff go to arbitration

The staff side of the Scottish teachers' salaries committee, the Association of Teachers in Scotland, has been forced to arbitration over its pay dispute with management.

At the latest STSC meeting, management submitted to the chairman, Lord Robertson, that all other means of negotiation had failed. Evidence will now be heard by the Arbitration, Conciliation and Advisory Service on July 31.

Scotland's largest teaching union, the Educational Institute of Scotland, voted last month to reject arbitration and continue industrial action next term. Management hope the AGAS conclusion will forestall any action when the schools resume at the end of August.

The management's final offer in June was 1.5 per cent, taking into account the "Clegg error" but staff have now raised their claim from 18.6 per cent to 21.2 per cent because of inflation.

## Art graduates lose right to 'second mile'

by Olga Wojtas  
Scottish art colleges are

confronted with the prospect that their best students will have to decide between postgraduate work and teacher training, as Scottish Education Department decided it will no longer give grants for both.

The department decision will limit through its written reply of grant applications submitted by art graduates and diploma holders. It has given grants for a year postgraduate diploma in Central Art Institutions, followed by a grant either for a college diploma course or the three-year graduate course at London's Royal College.

In a letter to Mr Gavin Macdonald, principal of Edinburgh College of Art, the department says it is not prepared to award a second grant to a student who has already received a grant for a diploma or diploma course.

"It is inevitable in the present economic climate to look at savings in public expenditure, and equally inevitable that there will be a reduction in the number of grants available," it says.

Following a letter from Mr Macdonald, the department has agreed to make a transitional arrangement for those who have made plans to go to the Royal College on the basis of the old rules and will give further grants to students finishing postgraduate work in August 1979-80.

"This is a diminution of opportunity," said Patricia Ross, a teacher training, it's surely the best interests to make the best use of the grant taking the year postgraduate course.

"The very best go on to the Royal College in London where they will not now have the full range of postgraduate facilities and their portfolios up to set their own standards. As a principal of the College, I am particularly disturbed by the fact that students who have been at the Royal College, where they no longer have the best facilities for their postgraduate work."

The controversy over Mr R. S. Ross's appointment stems originally from concern by staff that he comes from the same institution as Professor John Horobly, vice-chancellor of Salford, who is to be the OU's new vice-chancellor.

Decision on the appointment is now being delayed until the autumn after an agreement by the OU council to refer the matter back to the selection committee.

The controversy over Mr R. S. Ross's appointment stems originally from concern by staff that he comes from the same institution as Professor John Horobly, vice-chancellor of Salford, who is to be the OU's new vice-chancellor.

Decision on the appointment is now being delayed until the autumn after an agreement by the OU council to refer the matter back to the selection committee.

## Three-way split among MPs delays committee report

by John O'Leary

A radical package of proposals including the abolition of the University Grants Committee and the submission of the universities to local authority influence, was submitted to the Select Committee on Education this week.

The proposals, which would give predominance to local decision making throughout higher education, are understood to form the basis of a minority report by two left-wing members of the committee, Mr David Thomas (Cardiff Central) and Mr Stan Thorne (Labour).

But progress towards agreement on an official report has been delayed by a three-way split in the committee, which has put back voting by more than a month. Publication of the report on higher education will now be delayed until the end of October.

Conservative members insisted on the postponement of the voting sessions planned for this week after Mr Christopher Price, the chairman, had tabled a revised draft of more than 100 pages. They are not satisfied that it accurately represents the consensus views reached at a weekend meeting of members last month.

They will submit amendments when the committee meets next month, having decided against holding the final sessions next week. Mr Price's draft is expected to be critical of the performance of the Department of Education and Science and to recommend the establishment of a national body, to be known as the Committee for Colleges and Polytechnics (CCP), to oversee higher education in the public sector. It would work closely with the University Grants Committee and share a joint secretariat independent of the DES to co-ordinate planning.

In the reformed structure, the DES would concentrate on keeping the UGC and CCP informed of Government priorities and funding changes, issuing up-to-date statistics and providing funds for new initiatives. Its role in course approvals would disappear and intervention would take place only in exceptional circumstances.

The draft is understood to propose the abolition of the regional advisory councils and the removal of responsibility for higher education courses from HM Inspectors. Manpower planning and the DES concept of a "broad steer" will not win support.

It will recommend greater autonomy for institutions, subject to the acceptance by the appropriate national body of a statement of activities and objectives by each university, polytechnic and college. This information would be made available to the public and meetings of both national bodies would also be open.

The minority report, which represents a comprehensive alternative rather than a series of amendments, takes a radically different approach. By giving the local authorities influence, though not outright control, over universities, the two MPs believe the need for national bodies would be removed.

The UGC would be abolished and responsibility for planning all higher education given over to the Council of Local Education Authorities. All major institutions of higher education would be granted corporate status and would be funded through a single HE pool.

Regional advisory councils would be reformed rather than abolished, taking in responsibility for the universities but accepting reduced powers over course approvals. Local education authorities would also be given the power to downgrade designated courses to alter the balance of awards.

The minority report is also understood to recommend the abolition of the Universities Central Council for Admissions because it is considered to exert undue influence on sixth form studies.

Research councils would take over responsibility for administering the UGC's share of research funds and dual funding would apply to departments, rather than to institutions as now.

Both reports are expected to stress the importance of continuing education and to support the continued funding of the Open University through the DES.

Research councils would take over responsibility for administering the UGC's share of research funds and dual funding would apply to departments, rather than to institutions as now.

Both reports are expected to stress the importance of continuing education and to support the continued funding of the Open University through the DES.

Research councils would take over responsibility for administering the UGC's share of research funds and dual funding would apply to departments, rather than to institutions as now.

Both reports are expected to stress the importance of continuing education and to support the continued funding of the Open University through the DES.

Research councils would take over responsibility for administering the UGC's share of research funds and dual funding would apply to departments, rather than to institutions as now.

Both reports are expected to stress the importance of continuing education and to support the continued funding of the Open University through the DES.

Research councils would take over responsibility for administering the UGC's share of research funds and dual funding would apply to departments, rather than to institutions as now.

Both reports are expected to stress the importance of continuing education and to support the continued funding of the Open University through the DES.

Research councils would take over responsibility for administering the UGC's share of research funds and dual funding would apply to departments, rather than to institutions as now.

Both reports are expected to stress the importance of continuing education and to support the continued funding of the Open University through the DES.

Research councils would take over responsibility for administering the UGC's share of research funds and dual funding would apply to departments, rather than to institutions as now.

Both reports are expected to stress the importance of continuing education and to support the continued funding of the Open University through the DES.

Research councils would take over responsibility for administering the UGC's share of research funds and dual funding would apply to departments, rather than to institutions as now.

Both reports are expected to stress the importance of continuing education and to support the continued funding of the Open University through the DES.

Research councils would take over responsibility for administering the UGC's share of research funds and dual funding would apply to departments, rather than to institutions as now.

Both reports are expected to stress the importance of continuing education and to support the continued funding of the Open University through the DES.

Research councils would take over responsibility for administering the UGC's share of research funds and dual funding would apply to departments, rather than to institutions as now.

Both reports are expected to stress the importance of continuing education and to support the continued funding of the Open University through the DES.

Research councils would take over responsibility for administering the UGC's share of research funds and dual funding would apply to departments, rather than to institutions as now.

Both reports are expected to stress the importance of continuing education and to support the continued funding of the Open University through the DES.

Research councils would take over responsibility for administering the UGC's share of research funds and dual funding would apply to departments, rather than to institutions as now.

Both reports are expected to stress the importance of continuing education and to support the continued funding of the Open University through the DES.

Research councils would take over responsibility for administering the UGC's share of research funds and dual funding would apply to departments, rather than to institutions as now.

Both reports are expected to stress the importance of continuing education and to support the continued funding of the Open University through the DES.

Research councils would take over responsibility for administering the UGC's share of research funds and dual funding would apply to departments, rather than to institutions as now.

## Doubts raised over UGC running OU

by Charlotte Barry

A confidential report being considered by the University Grants Committee throws doubt on its ability to take over the funding of the Open University, which is at present financed directly by the Department of Education and Science.

The report of the working party set up by the UGC concludes that the committee could not assess the needs of the OU through the same internal procedures as those which apply to all other United Kingdom universities.

As a result, several major problems would have to be resolved before any decision could be taken. This negative conclusion, disappointing for the OU, was reached by the 10-member working party, chaired by Professor D. S. Jones, professor of mathematics at Dundee University, after seven months.

This involved visits to the OU and its regional offices, meetings with staff and students and a consideration of written submissions.

The most immediate issue is the necessity to secure assurances that the financial affairs of the OU could be conducted within the conventions of the UGC system, with the minimum of outside financial control.

Also causing concern is the structure of the OU, which, while the working party concludes, would have to be changed to ensure a professional majority.

Another top priority is the need to consider whether transferred funds could be earmarked for a minimum of two years for the OU's recurrent grant and five years for the capital grant. This would arise from taking into account the different recurrent grant needs of the OU which include the relatively high fixed cost low marginal costs, a lower contribution from student fees to total income and its relationship with the BBC. At the moment the OU is continuing its building programme at a cost of about £2.5m a year, which could swallow a disproportionate amount of the UGC's total capital grant of £10m.

The working party calculates that the process of taking over responsibility for the funding of the OU would involve expanding the level of staff at the UGC.

The working party envisages the need for a small group to calculate the OU's grant level and recommends that its equipment needs continue to be dealt with separately.

It concludes that although the OU provides the same order of "intellectual challenge" as undergraduate courses at conventional universities, the low volume and quality of research could cause problems if it is accepted on to the UGC grants list.

An expanded and revised programme of UGC visits would have to be set up to allow for the OU's decentralised structure and a policy for part-time students' fees would be needed.

It concludes that although the OU provides the same order of "intellectual challenge" as undergraduate courses at conventional universities, the low volume and quality of research could cause problems if it is accepted on to the UGC grants list.

An expanded and revised programme of UGC visits would have to be set up to allow for the OU's decentralised structure and a policy for part-time students' fees would be needed.



Peter Scott talks to Richard Cobb in the last of a series of profiles of leading historians, 7

Oswald Spengler  
Michael Biddiss reassesses the intellectual contribution of Spengler on the centenary of his birth, 9

Word and person  
Roger Sharrock reviews a new American study by Gerald Graff of the place of literary criticism in modern society, 11

Colombo conference  
John O'Leary discusses the controversial issues that will face next week's Commonwealth education conference in Sri Lanka, 8  
Leader, 23

Values of failure  
Stephen Prickett asks why so many eminent Victorian writers rejected their formal education, 10

Famine amid plenty  
Patricia Santinelli reports on the growing shortage of specialist teachers in maths and other subjects in schools, 6

North American news	4
Overseas news	5
Books	11-14
Science books	14
Noticeboard	15
Classified Index	16

Opinion	
Union view (APT), Christopher Price, Dan's Diary	21
Laurie Taylor, Letters	22
Leaders (graduate employment, Government strategy, Commonwealth conference), William Taylor	23

## University lecturers move to break up pay deadlock

University lecturers are holding a special meeting today to discuss a proposal to call in the Government's arbitration service to break the deadlock over their 19 per cent pay claim.

Although the claim, which is within Government-set cash limits, was agreed by parties representing the lecturers and the universities more than two months ago, there is still no date set for the second stage of negotiations, on which the Government is resolute.

The executive committee of the Association of University Teachers will decide today whether to call in the Advisory, Conciliation and Arbitration Service, ACAS, to intervene. If agreed ACAS could seek a meeting of the Department of Education and Science and other parties to try to discover the reasons for the delay.

Lecturers are still plugging their

hopes on a statement made in the House of Lords by Baroness Young, education minister of state, that the Government expected a meeting to be held by the end of this month. Accusations as to which Government department is responsible for the delay continue to abound. The Treasury this week insisted it was them.

Informed sources say that the Prime Minister, Mrs Margaret Thatcher, is unhappy with the claim, particularly in the light of her success in keeping down MPs' salaries. She has insisted that public sector and private sector employees' wages should be held back.

The actual claim is an average 13 per cent on top of the flat rate agreed in 1978. The DES has said it has received more than 500 letters on the claim. About 50 lecturers attended a lobby held by the AUT last week.

## NELP fishes around for volunteers

by Paul Fletcher

All 62 compulsory redundancies projected at North East London Polytechnic could now be avoided if a "new" staff find staff willing to accept compensation for premature retirement and options for retraining prove successful by the end of this year.

At a meeting this week of the joint education committee of three London boroughs and the unions, it was agreed that the "new" staff would take place even though final agreement on a premature retirement compensation scheme would not be possible until October.

Redundancy notices were to be sent out by August 31. There have now been 100 offers of early retirement and 100 offers of retraining. The committee will now be asked to approve the scheme.

The scheme will be a special offering of the staff. It will be a one-off payment of £10,000 to the staff. The scheme will be a special offering of the staff. It will be a one-off payment of £10,000 to the staff.

meeting had been positive and hard-fighting.

There is now a hope that there will be a sufficient number of volunteers to accept the offer of early retirement. The scheme will be a special offering of the staff. It will be a one-off payment of £10,000 to the staff.

At a meeting this week of the joint education committee of three London boroughs and the unions, it was agreed that the "new" staff would take place even though final agreement on a premature retirement compensation scheme would not be possible until October.

Redundancy notices were to be sent out by August 31. There have now been 100 offers of early retirement and 100 offers of retraining. The committee will now be asked to approve the scheme.

The scheme will be a special offering of the staff. It will be a one-off payment of £10,000 to the staff. The scheme will be a special offering of the staff. It will be a one-off payment of £10,000 to the staff.

legislated about £2m less than the amount requested. Existing money will run out by December, he has warned.

There is a real danger that the scope and nature of the institution will change drastically so that it remains a polytechnic in name but not in substance, he said.

Letters will be sent out to all staff before the end of the year. The scheme will be a special offering of the staff. It will be a one-off payment of £10,000 to the staff.

At a meeting this week of the joint education committee of three London boroughs and the unions, it was agreed that the "new" staff would take place even though final agreement on a premature retirement compensation scheme would not be possible until October.

Redundancy notices were to be sent out by August 31. There have now been 100 offers of early retirement and 100 offers of retraining. The committee will now be asked to approve the scheme.

legislated about £2m less than the amount requested. Existing money will run out by December, he has warned.

There is a real danger that the scope and nature of the institution will change drastically so that it remains a polytechnic in name but not in substance, he said.

Letters will be sent out to all staff before the end of the year. The scheme will be a special offering of the staff. It will be a one-off payment of £10,000 to the staff.

At a meeting this week of the joint education committee of three London boroughs and the unions, it was agreed that the "new" staff would take place even though final agreement on a premature retirement compensation scheme would not be possible until October.

Redundancy notices were to be sent out by August 31. There have now been 100 offers of early retirement and 100 offers of retraining. The committee will now be asked to approve the scheme.

legislated about £2m less than the amount requested. Existing money will run out by December, he has warned.

There is a real danger that the scope and nature of the institution will change drastically so that it remains a polytechnic in name but not in substance, he said.

Letters will be sent out to all staff before the end of the year. The scheme will be a special offering of the staff. It will be a one-off payment of £10,000 to the staff.

At a meeting this week of the joint education committee of three London boroughs and the unions, it was agreed that the "new" staff would take place even though final agreement on a premature retirement compensation scheme would not be possible until October.

Redundancy notices were to be sent out by August 31. There have now been 100 offers of early retirement and 100 offers of retraining. The committee will now be asked to approve the scheme.

## Finniston pleads with Sir Keith

A last minute attempt to save the proposed new engineering authority body may be established by Sir Keith Finniston, in a confidential letter to Sir Keith Joseph, the Secretary of State for Industry.

This move follows recent reports from the Department of Industry that Sir Keith may choose not to set up a strong statutory authority to register, assess and control the engineering profession and its education as proposed by Sir Monty's committee of inquiry into the manu-

facturing industry. Instead, a far weaker, purely advisory chartered body may be established by Sir Keith whose membership he would personally select.

This proposal is similar to one recently put to Sir Keith by the Fellowship of Engineering, which stirred Sir Monty to protest vehemently about current developments over his committee's report. Sir Keith describes the fellowship plan as "last-minute and ill-considered" and calls on Sir Keith to "im-

plement the engineering authority as originally proposed. Sir Keith's reply was non-committal.

There is now a great deal of confusion about Sir Keith's likely decision, although current thinking at the department suggests that the Fellowship of Engineering plan may now be rejected. Some form of chartered authority is still his most likely recommendation with a variety of different possible powers only his announcement next week will resolve the dilemma.

This move follows recent reports from the Department of Industry that Sir Keith may choose not to set up a strong statutory authority to register, assess and control the engineering profession and its education as proposed by Sir Monty's committee of inquiry into the manu-

facturing industry. Instead, a far weaker, purely advisory chartered body may be established by Sir Keith whose membership he would personally select.

This proposal is similar to one recently put to Sir Keith by the Fellowship of Engineering, which stirred Sir Monty to protest vehemently about current developments over his committee's report. Sir Keith describes the fellowship plan as "last-minute and ill-considered" and calls on Sir Keith to "im-

plement the engineering authority as originally proposed. Sir Keith's reply was non-committal.

This move follows recent reports from the Department of Industry that Sir Keith may choose not to set up a strong statutory authority to register, assess and control the engineering profession and its education as proposed by Sir Monty's committee of inquiry into the manu-

This proposal is similar to one recently put to Sir Keith by the Fellowship of Engineering, which stirred Sir Monty to protest vehemently about current developments over his committee's report. Sir Keith describes the fellowship plan as "last-minute and ill-considered" and calls on Sir Keith to "im-

plement the engineering authority as originally proposed. Sir Keith's reply was non-committal.

This move follows recent reports from the Department of Industry that Sir Keith may choose not to set up a strong statutory authority to register, assess and control the engineering profession and its education as proposed by Sir Monty's committee of inquiry into the manu-

This proposal is similar to one recently put to Sir Keith by the Fellowship of Engineering, which stirred Sir Monty to protest vehemently about current developments over his committee's report. Sir Keith describes the fellowship plan as "last-minute and ill-considered" and calls on Sir Keith to "im-

plement the engineering authority as originally proposed. Sir Keith's reply was non-committal.

This move follows recent reports from the Department of Industry that Sir Keith may choose not to set up a strong statutory authority to register, assess and control the engineering profession and its education as proposed by Sir Monty's committee of inquiry into the manu-

This proposal is similar to one recently put to Sir Keith by the Fellowship of Engineering, which stirred Sir Monty to protest vehemently about current developments over his committee's report. Sir Keith describes the fellowship plan as "last-minute and ill-considered" and calls on Sir Keith to "im-

plement the engineering authority as originally proposed. Sir Keith's reply was non-committal.

A last minute attempt to save the proposed new engineering authority body may be established by Sir Keith Finniston, in a confidential letter to Sir Keith Joseph, the Secretary of State for Industry.

This move follows recent reports from the Department of Industry that Sir Keith may choose not to set up a strong statutory authority to register, assess and control the engineering profession and its education as proposed by Sir Monty's committee of inquiry into the manu-

This proposal is similar to one recently put to Sir Keith by the Fellowship of Engineering, which stirred Sir Monty to protest vehemently about current developments over his committee's report. Sir Keith describes the fellowship plan as "last-minute and ill-considered" and calls on Sir Keith to "im-

plement the engineering authority as originally proposed. Sir Keith's reply was non-committal.

This move follows recent reports from the Department of Industry that Sir Keith may choose not to set up a strong statutory authority to register, assess and control the engineering profession and its education as proposed by Sir Monty's committee of inquiry into the manu-

This proposal is similar to one recently put to Sir Keith by the Fellowship of Engineering, which stirred Sir Monty to protest vehemently about current developments over his committee's report. Sir Keith describes the fellowship plan as "last-minute and ill-considered" and calls on Sir Keith to "im-



## Technicians lodge new claim

by David Jobbins

University technicians meet their employers today to lodge their 1980 pay claim on the basis of this week's Clegg commission award which gave them 19.5 per cent on their October 1979 rates.

While still angry at what they regard as a series of delays in the comparability exercise which led to the report, union officials accept that the findings are binding.

This week's report, which awards 12 per cent from April this year, is the second dealing with the 20,000 university technicians' pay. After an interim report their salaries were increased by eight per cent last October.

A further 6.5 per cent has been

paid from April 1 this year—and the new money, equivalent to 12 per cent on current rates and adding £9.6m to the salary bill, is also payable from then.

While Association of Technical, Managerial and Supervisory Staffs officials are declining to say exactly how much their 1980 claim will be, they have indicated they will have to take into account the increased cost of living since October last year, and movements in technicians' salaries outside the universities. The 1980 claim would be payable from next October.

A survey carried out for the commission found that universities found it more difficult to fill vacant posts than other organizations with which they were compared. Pay and

conditions of service were most frequently identified as the reason.

The new salaries will give a 21-year-old technician a maximum of £9,045, compared with a range of £2,760 up to £7,569 in October last year.

The Clegg award also includes lump sum payments totalling £1.4m to take account of a change in the base date for the survey from October 1978 (for the interim report) to October 1975 (for the latest report). Individual lump sums vary from £46 to £140 according to grade.

It also provides for a restructuring of the bottom end of the grading system which has been agreed by the technicians and their employers.

## Nuffield warns against increasing science study

by Robin McKie  
Science Correspondent

There is no case for increasing numbers of science studies courses at British universities and polytechnics while they suffer their present poor public esteem, the Nuffield Foundation warned this week.

In a report published by the foundation, Sir Alec Cairncross, former Master of St Peter's College, Oxford, points out that about 6,000 students—including those of the Open University—now take such courses. These figures have been achieved through a relatively rapid rise in courses over the past 10 years, although there is now no immediate case for adding more.

This expansion has concentrated on courses in social aspects of science and technology, while undergraduate courses in the history and philosophy of science are tending to decline slightly.

Further demand is now limited by factors susceptible of change: the ignorance of school-leavers and their doubts whether their job prospects might be prejudiced; the scepticism of their advisers; the demands on teachers in polytechnics and universities and the narrowing of their chances of promotion, the report adds.

To improve matters, science must be convinced that science studies courses are intellectually important, to put across. Courses are also of help for undergraduates wishing to pursue careers in business or administration.

Some form of combined study should be capable of attracting increasing numbers of science students when a large proportion of them do not expect to be in employment that will make much call on their specialized training.

Other approaches could include more joint honours degrees, including science on one hand and another on the other, and the development of a postgraduate year devoted to the study of science and technology in their social and economic context.

The MSC courses at Manchester and Aston, for example, offer graduates both in arts and sciences with a strong motivation to study important issues in science policy.

Sir Alec concludes that there is also need for just as much engineering education and in organizing about the subject as has been about engineering education.

## College unions join attack on new Employment Bill

The polytechnic and college lecturers' union is to join in the general condemnation of the Government's latest employment law when the Trades Union Congress meets in Brighton in September. The National Association of Teachers in Further and Higher Education is one of seven unions with motions in the preliminary agenda bitterly critical of the 1980 Employment Bill.

The 70,000-strong union demands repeal of the parts of the legislation which weaken trade union rights and calls for a new employment law including the right to at least 60 days' consultations and a minimum of one year's pay as compensation in the event of redundancy.

An attack on cuts in local author-

ity services also comes from Nuffield, in an appeal to the general council to seek ways of identifying the Campaign for Economic and Social Justice, launched last year's congress.

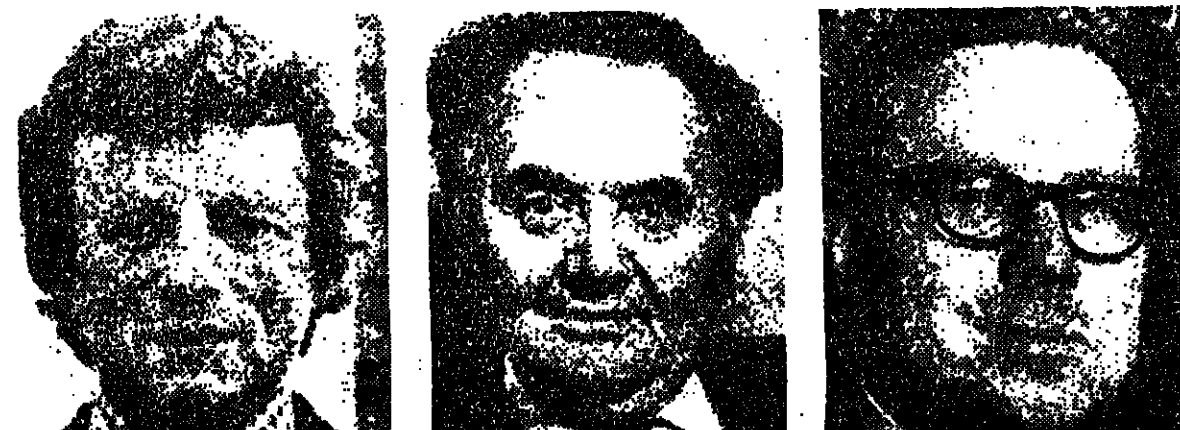
Nuffield wants congress to insist the general council to place education, training and retraining programmes for adults at the centre of its campaign.

Call for an expansion of training programmes are also embodied in resolutions from other unions condemning the Government's economic policies and their effect on employment.

The higher fees for general studies courses under attack by the Association of Universities Teachers, with a motion seeking continued pressure on the Government.

## Committee will opt for openness and flexibility

John O'Leary reveals the likely recommendations in the forthcoming Commons' report on higher education



MPs Dafydd Thomas (left), Stan Thorne (centre) and Patrick Cormack will want to see changes in the draft.

A new openness and greater flexibility both at national and institutional level are at the root of the fundamental changes recommended in the final draft of the Education Select Committee's report on the funding and organization of courses in higher education.

The draft, which was the product of a weekend meeting to discuss Mr Christopher Price's initial proposals as chairman, is expected to run to more than 100 pages and to cover the full range of higher education provision in varying degrees of detail.

It is understood to contain scathing criticism of the Department of Education and Science, which the MPs believe should be relegated to a monitoring role, intervening in policy questions only in exceptional circumstances. The DES responsibility for course approvals would disappear totally.

The report would propose new planning machinery for higher education, involving the establishment of a national body for the public sector, known as the Committee for Colleges and Polytechnics (CCP), which would work in concert with the University Grants Committee. The two bodies would have a joint secretariat to coordinate planning with the assistance of DES advisers.

Course rationalization, combined initiatives in the field of continuing education and retraining or redeployment of staff would be among the responsibilities of the joint machinery in the first place. Later, the opportunities for closer cooperation might enable institutions to transfer between the two national bodies as appropriate to their developing roles.

The UGC, which is recommended to recruit more by members from industry and the local authorities, and the CCP should both be established for a limited period before their functions should be reviewed, the committee believes. Both should be subject to the Public Bodies (Admission to Meetings) Act, which does not apply now to the UGC.

Such openness is also recommended for the individual institutions, which would be expected to submit annual reports on their activities to the UGC or CCP and make these available to the public. Institutions would also make a statement to their national body on their role and objectives, which would be used as a yardstick to measure progress. Within the constraints imposed by such a definition, there would then be maximum institutional autonomy.

Polytechnics would also be given corporate status but would not achieve their desire for freedom from local authority control. Instead, a voluntary code is advocated to protect institutions from unwarranted interference by authorities.

Looking further ahead, the committee foresees an end to the binary system before the end of the decade, while wishing to maintain the variety of provision available at present. With the development of centres of excellence considered likely in a restricted network of research funding, distinctions between some universities and public sector institutions are expected to become blurred.

The continuation of the dual funding system for research is suggested,

with the existence of major support for research becoming the likely prerequisite to administration by the UGC. The exception to the funding rule would continue to be the Open University, since the MPs do not support proposals for its transfer from DES finance.

The Open University is considered to have a pivotal role to play in the development of continuing education—a high priority in the committee's draft report. Proposals for the establishment of an Open Tech also find support, with a system of credit transfer ensuring student mobility.

Continuing education is also singled out for special mention at the predominantly full-time institutions. The MPs hope that the decline in the age participation rate, which is expected to continue at its present low rate, will be used as an opportunity to emphasize

retraining and the recruitment of more mature students generally. Little credence is given either to detailed manpower planning or to DES alternative of a "Broad Sheet" of subjects as a basis for higher education provision. Although studies of manpower requirements are thought important, only in postgraduate education are they considered capable of forming the basis for planning.

The committee does favour a radical alteration of the system of course approvals in the public sector, however. It recommends the abolition of the Regional Advisory Councils because they are said to constitute an unnecessary layer of bureaucracy, and proposes the removal of responsibility for higher education from the Regional Still Inspectorate.

No recommendations are made on the subject of student loans, despite the allocation of a complete session of the inquiry to the subject. Instead, the draft is likely to call for a review of the design of courses as either mandatory or discretionary for the purpose of awards, and the abolition of the parental contribution to student grants.

The committee also supports the introduction of bigger grants for student teachers training in shortage subjects and enhanced salaries for those subjects in the schools. Both measures are advocated only as an emergency measure and differential development of continuing education—high priority in the committee's draft report. Proposals for the establishment of an Open Tech also find support, with a system of credit transfer ensuring student mobility.

Continuing education is also singled out for special mention at the predominantly full-time institutions. The MPs hope that the decline in the age participation rate, which is expected to continue at its present low rate, will be used as an opportunity to emphasize

## Teacher trainers told to provide more maths

by Patricia Santinelli

The Government has issued a stern warning to all teacher training institutions that they must act to avert a serious imbalance in the subjects they are providing or face the consequences.

In a circular issued last week the Department of Education and Science said the pattern of teacher training recruitment had shown a marked divergence from the subjects needed in schools.

Enrolment data for 1979 "suggests that a large number of institutions are considerably exceeding their planned numbers in three to four year courses in non shortage subjects, particularly physical education, and falling well below them in the subjects in most acute shortage—mathematics, craft design and technology and above all physical science. 1980 recruitment figures suggest a similar picture," said the circular.

It pointed out that on present forecasts the size of the teaching force required will fall below the planned 420,000 to some 400,000—much lower than the agreed output of 36,000 to 17,000.

The circular warned that unless colleges control recruitment in non shortage subjects and increase it in shortage subjects many newly qualified teachers will be without jobs.

RED and PE courses should have at least 20 students in single groups and 30 in mixed ones and colleges with planned numbers well below those levels should reconsider whether to provide specialist PE courses, it said.

"However institutions with strong PE courses only slightly below the norms might consider increasing their size if they can offer a short supply second subject in the sciences, modern languages or music, since there is evidence that employers are increasingly looking for this kind of combination," said the circular.

It recommended that PE main method courses in the Postgraduate Certificate of Education should be offered only by institutions with a particular strength in this field. Institutions are also being advised to consider providing opportunities for non-shortage subject students to take a second course in a shortage subject where staff and resources are available.



Professor Charles Phelps, at present Professor of Biochemistry at Lancaster University, has been appointed principal of Chelsea College, University of London.

Professor Phelps succeeds Dr David Legum, who is leaving Chelsea to become Vice-Chancellor of Kent University. He joins the college as it is about to implement development plans made possible by the acquisition of the former site of the College of St Mark and St John.

## Lancaster aims to help traders

Areas of teaching and research at Lancaster University which could help local business and manufacturing firms cope with problems caused by the economic recession are to be explored by a joint working party set up by the university and Lancaster and District Chamber of Commerce.

In particular the working party will be aiming to encourage short courses, seminars and conferences in the fields of trade and industry, in the knowledge of the community, the availability of university facilities.

It will also monitor changes in local needs and developments within the university and will meet regularly under the joint chairmanship of Professor Morgan, senior vice-chancellor of Lancaster, and Mr Max Gordon, president of the chamber of commerce.

Mr Gordon, who is chairman of the Lancaster University Business Centre, said the working party would also identify the higher education institutions from which the chamber of commerce has strong departments of science, engineering and management studies which have always maintained close association with the local community.

"We are anxious to develop these links in a more extensive way," said the university, which will be more responsive to local needs. The university departments involved will also benefit because contact with outside organizations invariably enriches teaching and research.

The establishment of working party is the third of a series of ideas under consideration for linking Lancaster University more closely with the local community. It was announced by the university's vice-chancellor, Professor Morgan, at a meeting of the university's governing body last week.

Professor Morgan said the working party would also identify the higher education institutions from which the chamber of commerce has strong departments of science, engineering and management studies which have always maintained close association with the local community.

## Aston graduates top jobs league

Only 2.5 per cent of graduates from the University of Aston in Birmingham were still seeking employment at the end of the year. This maintains the university's record over the past five years of having the lowest unemployment rate of any British university, the latest annual report says.

In its tenth annual report, the careers and appointments service said the current economic recession had seen no change in the employability of Aston graduates, with employment going into industry and commerce.

An engineering university, said the report, Aston tended to specialise in applied degree courses in some of which there was an acute shortage of graduates.

Scientists had been at a premium, said many jobs were open for them and the university's record of success in all branches of engineering.

While unemployment, particularly among young people, had increased over the past year, the report concluded that long term unemployment among graduates, although they were taking longer to find jobs.

They were also working for a greater variety of employers and doing a wider range of functions. The jobs currently filled by graduates would have been thought inappropriate for them and would have been filled by school leavers.

## Oxford don predicts loss of extra mural state funding

by Charlotte Barry

The present system of public financial support for university-based adult education cannot survive the decade, Mr Dick Smithurst, director of the department for external studies at Oxford University told the Standing Conference on University Teaching and Research in the Education of Adults (SCUTREA) at Oxford.

Instead there will be increased pressure to replace the additional non-vocational kind of adult education provided by most extra-mural departments with continuing education courses paid for by the professions, business and manufacturing industries, Mr Smithurst said.

"I think over the next ten years the major trend will be pushed much more to the American pattern of university adult and continuing education, where the universities think they are doing very well if they get up to a third of their income from state and public funds," he told members of the conference.

The universities will not only be forced therefore with going into con-

tinuing education but also agreeing with what are most contractual arrangements of other workers, we are going to have to do the kind of things that clients want us to do and this could threaten our professional status," he said.

Mr Smithurst included his prophecy in a speech in which he emphasized how the combination of inflation and high unemployment will mean that adult and continuing education will be more needed than ever.

He told the conference that two years ago there were indications that resources would become available for adult education because of the falling rolls in schools, but the only substantial public funding made available in this area was for the unemployed.

"It would have needed a positive decision to transfer resources to adult education and I don't think it is going to happen," he said. "There will be a call to the universities to do more relevant work which will increase the disparity rather than decrease it."

## Technology 'helps study'

Adult education has a major role to play in helping people acquire the social consequences of new technology, Mr Geoffrey Hubbard, director of the Council for Education Technology, told the SCUTREA conference.

He urged the conference to encourage the debate about "what adult education can do" and is an area of greatest importance in the next decade."

Explaining the new technology available to educators—from broadcasting to computers—Mr Hubbard said that their use raised fundamental questions about the traditional roles played by adult education and adult education institutions.

"The history of education has been based on the idea of teacher as mediator and controller," he said. "Now more individual learning methods enabled students to escape more control. Adult education were going to have to decide if they were going to stand in the way or help students to new techniques to their best advantage."

## Directors support social teachers in blacklist row

by Charlotte Barry

Directors of social work courses in Midlands polytechnics and universities are backing colleagues who have accused social services departments of operating an unofficial blacklist of "unsuitable" courses.

In a statement supporting an open letter sent recently to Friswell Young, director of the Central Council for Education and Training in Social Work, they say that many teachers of social work are becoming increasingly alarmed by the move by outside authorities to have greater influence over the content, organization and examination of courses leading to the Certificate of Qualification in Social Work.

"These discreet moves towards greater control are in the most fundamental anti-educational sense," the statement said. "The cumulative effect could have a devastating effect on the ability of educationists to rise not only to the needs of their students, but also to their obligation to contribute to the future development of social work theory and practice."

The original open letter to Miss Young, which was published in the social work magazine *Community Care*, was signed by 15 senior social workers in universities and polytechnics. It accused the central council of being less than resolute in defending courses against employers' pressures.

In reply to the accusations, Miss Young has said that she considers employers and professional organizations as much as educators have an important contribution to make to the content of social work courses and the debate between them is essential for the development of social work education.

By the council's recent statement to amend its guidelines for courses leading to a certificate.

This says that the content of courses will remain a matter for individual institutions but interprets its responsibilities as involving the content of the content and organization of courses, say the directors.

Acknowledging the major task the council has played as the validating body for social work courses and their promotion over the last decade, the statement said: "However, in its desire to ensure minimum standards it has been over concerned with drafting governing regulations to apply to all courses, and has failed to discriminate between the content of the content and organization of institutions in the separate and quite distinct educational sectors."

The original open letter to Miss Young, which was published in the social work magazine *Community Care*, was signed by 15 senior social workers in universities and polytechnics. It accused the central council of being less than resolute in defending courses against employers' pressures.

In reply to the accusations, Miss Young has said that she considers employers and professional organizations as much as educators have an important contribution to make to the content of social work courses and the debate between them is essential for the development of social work education.

## Recruitment defies prediction of slump

Student recruitment to diversified degree courses in the colleges and institutes of higher education is showing a surprising upturn, despite predictions of a slump.

Figures released this week by the Central Register of the Clearing House reveal a drop of 6 per cent in the numbers accepted on to degree courses other than the BEd. But, with more colleges carrying out their own recruitment this year, the real figure is expected to show a healthy increase.

Recruitment for teacher education courses is still giving concern, with a 24 per cent decline still expected for this year and some 10,000 places in the colleges and institutes of higher education are expected to be unfilled.

Miss Beryl Sowerbutts, secretary of the Clearing House, said this week: "On the whole, the diversified courses are showing a more stringently applied application of the course approval mechanisms."

Figures quoted by the Committee of Directors of Polytechnics claimed that the average recruitment year for the diversified courses was running at only 47 students. Miss Sowerbutts said that some of the smaller colleges might have an annual recruitment of not yet complete, but most would be well above 90 per cent.

Although final figures will not be available for several months, the position contrasts sharply with predictions of large numbers of diversified courses falling foul of the more stringent application of the course approval mechanisms.

Figures quoted by the Committee of Directors of Polytechnics claimed that the average recruitment year for the diversified courses was running at only 47 students. Miss Sowerbutts said that some of the smaller colleges might have an annual recruitment of not yet complete, but most would be well above 90 per cent.

## Dubai's gift helps Exeter

A new library for the University of Exeter is being partly financed by a £750,000 gift from the ruler of Dubai, His Highness Sheikh Rashid bin Saeed Al-Maktoum.

The £325,000 first phase of the project—the ground floor of what will be a four-storey air-conditioned building—is already nearing completion, its cost met through the University Grants Committee.

Now the university is confident of a start on the final phase in 1981 with the remainder of the £2.3m still needed raised from Govern-

ment and perhaps other private sources. The university understands that the gift flows from its promotion of study and research into the contemporary Arab world—which has been emphasized by The Gulf states. In addition to the university's Department of Arabic and Islamic Studies, the Centre for Arab Gulf Studies, set up in 1978, is the only research centre in the region world specialising in the region's social, economic, political and historical questions.

### TWELFTH NIGHT

ALDWICH THEATRE

Final performances  
Thurs 7.30  
Fridays 7.30  
Sats 2.30  
Sats 7.30  
Sun 2.30  
Sun 7.30

An invigorating and inventive evening which bowls along on a knife-edge of alternating moods and unbridled theatricality.  
Daily Telegraph

Highly enjoyable...  
Miss Loughlin's Viola has a vividness, sincerity, charm and a touch of the divine.  
Financial Times

This production is sponsored by Aldwych Theatre Limited.

RSC  
Box Office 01-836 6101  
01-373 6219

No other tickets to be had except from the Official Box Office.



## North American News

## Choice of trustees is 'too haphazard'

from Clive Cookson

WASHINGTON  
Selection procedures for the governing boards of the United States' 3,000 colleges and universities are in drastic need of improvement, according to an independent commission sponsored by the Association of Governing Boards (AGB). Trustees are generally chosen haphazardly, without any guidelines and, as a result, boards lack diversity and balance, particularly in the private sector, while in the public sector they are very vulnerable to political pressures.

University and college independence in the United States has suffered "general and pervasive erosion" as a result of federal and state government intervention, the commission said, and stronger and more effective governing boards are an essential defence against further loss of autonomy "from both the changing winds of partisan politics and faculty and student demands for greater control of institutional affairs".

Public and private institutions share the same basic system of governance by lay boards whose members are usually called trustees or regents. They are responsible for the appointment of the institution's president and ultimately for its financial affairs. (The commission claimed that this system is uniquely American.)

Nevertheless the Commission decided there were sufficient differences between the private and public sectors to bring out a separate report for each. Many recommendations appear in both reports, however, including one that provoked immediate controversy that "students should not be voting members of the governing boards of the institutions in which they are enrolled".

"The commission believes that extensive student participation on board committees is desirable, but that students as full voting members of the board create a conflict of interest. A student trustee is presumed to represent an internal constituency," the reports said. "The commission also considered that student trustees only serve for a short period of time; too often the student trustee's term has expired just when the student has begun to understand the job."

The head of the United States studies association, Frank Jackson, said the recommendation "makes little sense but to express a degree of paranoia. The fact is that many universities that have chosen to or been required to add student representation would rather have their boards dominated by a member who can be held responsible to the governing body". The association said it would "continue to get students and sympathetic leaders of the higher education community to reproduce the anti-student sentiment". Although representation of governing boards was one demand of the student movement in the late 1960s, the number of institutions that have actually given students a

voting seat on the board is small—less than 1 per cent, according to Kenneth Mortimer, director of the Centre for the Study of Higher Education at Pennsylvania State University, who directed the commission. Some sort of non-voting student representation is much more common.

However, the few universities that do give their students the right to elect a voting trustee include some large and visible institutions, such as the State University of New York, where a student trustee is mandated by law. SUNY Chancellor Clifton Wharton, who served on the commission, observed that sometimes "the symbolism of membership with vote merely leads to frustration on the part of the student trustee and to attempts to increase the number of student trustees even further".

The report on trustee selection in the public sector concentrates on the need to insulate the process from the political pressures to which it often succumbs. By far the most common procedure is for the state governor to appoint trustees, who are then confirmed by the state Legislature.

"Often the appointment of trustees is part of the political patronage process," the report says. And when it is not, the governor is frequently handed lists of nominees put together haphazardly by his staff.

The answer to these problems, according to the commission, is to introduce "a careful search and screen process" for trustees. Every state college and university should have its own nominating committee, to search out qualified nominees whose appointments would give the board the best mix of skills and backgrounds (ethnic, racial, sexual, social and political). The governor would then have to choose trustees from the list of names sent to him by the nominating committee. (In five states, governing boards of public four-year colleges and universities are directly elected by the general public. The commission disapproves of elected trustees, because they do not usually provide a balanced, diverse body.

In contrast to the state systems, the boards of private institutions are self-perpetuating. According to the commission, "trustee selection procedures in the independent sector can be as best haphazard and at worst casual". Very few colleges and universities in the private or public sector already follow the guidelines recommended in the commission's two reports. Robert G. Gate, president of the Association of Governing Boards, promised to devote "tremendous energy" to get them adopted more widely, by lobbying his organization's own membership. He also promised that the association would continue to "reproduce the anti-student sentiment" in its reports. The association said it would "continue to get students and sympathetic leaders of the higher education community to reproduce the anti-student sentiment". Although representation of governing boards was one demand of the student movement in the late 1960s, the number of institutions that have actually given students a

## Columbia man to head open university task force

from our North American editor

William McGill, who has just retired as president of Columbia University, is to head a task force that will draw up plans for an American open university, financed in part by a \$150m grant from Walter Annenberg, the publishing multi-millionaire.

This announcement follows a ruling from the Internal Revenue Service that the Annenberg School of Communications, Mr Annenberg's educational foundation, can give the Corporation for Public Broadcasting \$10m a year over 15 years, without adverse tax consequences. Other high-powered members of the task force are Robert Fleming, president of the Corporation for Public Broadcasting, and former president of the University of Michigan; Maurice Mitchell, chairman of the board of directors of National Public Radio and former chairman of the University of Denver; Newton Minnow, former chairman of the board of directors of the Public Broadcasting Service; and George Gerbner, Dean of the Annenberg School of Communications at the University of Pennsylvania.

It seems that neither the Corporation for Public Broadcasting nor the Annenberg officials has a firm idea yet of the best arrangements for the "National University of the Air", as Mr Annenberg has called the proposed institution. All they will say is that it will offer college credit courses through public radio and television and "other telecommunications media". "For students who cannot afford the cost of on-campus education".

Mr Annenberg, former American Ambassador to Britain, is known to believe that the courses should be aimed at the 18- to 24-year age group, but members of the task force may lean toward the conventional view that the greatest potential for



The old and the new: Britain's Lord Perry (left), vice-chancellor of OU, and William McGill, leader of the US project.

an open university lies in the adult population, in particular people in mid-career.

Walter Perry, vice-chancellor of Britain's Open University, believes strongly that it would be a mistake for anyone planning a similar institution in the United States to rely on the traditional college age population. In an interview in New York, where he was visiting the American office of the Open University (known as the British Open University Foundation), Lord Perry said there were both political and economic reasons for going after adults.

Politically, he said, an American open university would antagonize "every traditional college" if it competed for their young undergraduates. But they would welcome it if it brought mid-career adults back into the higher education system. In addition, studies and the experience of the Open University in Britain had shown that distance learning is not suitable for many 18 to 21 year olds, Lord Perry said. "They drop out like flies," he said.

Lord Perry is well aware of the problems to be faced in establishing an American Open University. Five years ago, at the request of Prime Minister Harold Wilson, he communicated his ideas on the subject to vice-president Nelson Rockefeller, who was considering setting up a commission to study possible

open learning systems for the United States. But nothing came of it. "I don't think anything is to get off the ground in the US without making use of the awful lot of our material, and reinventing the wheel," said Perry.

He added that, if an American open university did get off the ground, it would favour a "barrier" between it and the British Open University. The two institutions would swap and no money need change. But Lord Perry does not see Anglo-American co-operation. "OU courses could work, but small scale," he said.

Meanwhile, the future of Britain's Open University Foundation remains uncertain. Its funds are safe until the end of 1981, but Perry and Peter Prince, the foundation's executive director, are looking for American funds to carry it through 1982 and beyond. It has a staff of 100 and its office in New York cost more than \$100,000 a year to operate, and the OU made clear that in future its income must come from its own sources.

"It's vital to keep this open," Lord Perry said, "but years ago I made clear that we were going to keep a sharp line of expense of the British Open University".

## Deans resign from posts in Sri Lanka pay dispute

from D. B. Udalgama

COLOMBO  
A dispute over the pay of university teachers in Sri Lanka has led to more than 32 heads of departments resigning from their offices as deans in the universities of Colombo, Kelaniya and Sri Jayawardanapura.

They have been offered a 15 per cent increase in salaries backdated to January 1 as well as a special professional allowance for professors with a PhD.

The Federation of Teachers' Associations of the universities of Sri Lanka says the final take home pay of most teachers will increase by 8 per cent.

The resignation of the deans has led to a crisis in the universities. The government has asked the deans to return to their posts.

The resignation of the deans has led to a crisis in the universities. The government has asked the deans to return to their posts.

The resignation of the deans has led to a crisis in the universities. The government has asked the deans to return to their posts.

The resignation of the deans has led to a crisis in the universities. The government has asked the deans to return to their posts.

The resignation of the deans has led to a crisis in the universities. The government has asked the deans to return to their posts.

The resignation of the deans has led to a crisis in the universities. The government has asked the deans to return to their posts.

The resignation of the deans has led to a crisis in the universities. The government has asked the deans to return to their posts.

The resignation of the deans has led to a crisis in the universities. The government has asked the deans to return to their posts.

The resignation of the deans has led to a crisis in the universities. The government has asked the deans to return to their posts.

The resignation of the deans has led to a crisis in the universities. The government has asked the deans to return to their posts.

The resignation of the deans has led to a crisis in the universities. The government has asked the deans to return to their posts.

The resignation of the deans has led to a crisis in the universities. The government has asked the deans to return to their posts.

The resignation of the deans has led to a crisis in the universities. The government has asked the deans to return to their posts.

The resignation of the deans has led to a crisis in the universities. The government has asked the deans to return to their posts.

## Course pruning hits postgraduate study

by Guy Neave

Major changes in the structure of postgraduate studies in France are on the way following the refusal by the Ministry of Higher Education to validate many of this year's submissions to start new postgraduate courses.

The smaller universities—Lyon, Reims, St Etienne and Angoulême—will be particularly hard hit. Among the subjects to be pruned are psychology, education, sociology and modern languages except English.

Permission to start new courses at the third and fourth year of undergraduate study as well as the diploma d'études approfondies and the third cycle doctorate comes from the National Council of Higher Education and Research which comes directly under the control of the ministry.

Further this year discussions within the council left many university dons with the impression that if cuts were in the pipeline few were prepared for what amounts to an across-the-board refusal to validate further courses and a withdrawal of permission to some which have already begun to run.

At the University of Amiens six third-cycle (postgraduate doctoral level) courses have seen their validation withdrawn and a further four second-cycle (third and fourth year graduate years) courses have been cut. "This amounts to nothing less than the beheading of the university of Picardy," said the vice-chancellor.

At the University of Tours postgraduate courses in sociology, psychology, general and comparative literature and planning have been closed down by ministerial fiat.

Similar cuts have been introduced at Pau and Chambéry in eastern France. The Minister for Higher Education, Madame Alice Saunier Seïre, justifies these measures on the grounds of a need to set up high level "universities and to concentrate specialized studies in the larger establishments".

This reverses her previous policy which, three years ago, tended to favour the smaller establishments and particularly those outside the Paris region. From the standpoint of the latest victims of the cuts more worrying is the fear that students will be less willing to enrol in those universities without graduate courses.

This development, says the syndicat national de l'enseignement supérieur, the teachers' union will create a binary policy within the university sector itself of fully fledged universities with postgraduate facilities and American-style liberal arts colleges concentrating on two-year general studies degrees.

The new development is exquisitely timed. It comes in the middle of the summer vacation. The minister has thus placed the university world in front of a fait accompli. There is little hope that the decision can be reversed before it is, due to take effect at the start of a new academic year in October.

The way of priority teachers union has called upon its members to continue enrolling students in those courses which the minister has abolished.

The way of priority teachers union has called upon its members to continue enrolling students in those courses which the minister has abolished.

The way of priority teachers union has called upon its members to continue enrolling students in those courses which the minister has abolished.

The way of priority teachers union has called upon its members to continue enrolling students in those courses which the minister has abolished.

The way of priority teachers union has called upon its members to continue enrolling students in those courses which the minister has abolished.

The way of priority teachers union has called upon its members to continue enrolling students in those courses which the minister has abolished.

The way of priority teachers union has called upon its members to continue enrolling students in those courses which the minister has abolished.

The way of priority teachers union has called upon its members to continue enrolling students in those courses which the minister has abolished.

The way of priority teachers union has called upon its members to continue enrolling students in those courses which the minister has abolished.

The way of priority teachers union has called upon its members to continue enrolling students in those courses which the minister has abolished.

The way of priority teachers union has called upon its members to continue enrolling students in those courses which the minister has abolished.

The way of priority teachers union has called upon its members to continue enrolling students in those courses which the minister has abolished.

The way of priority teachers union has called upon its members to continue enrolling students in those courses which the minister has abolished.

The way of priority teachers union has called upon its members to continue enrolling students in those courses which the minister has abolished.



Postgraduate students are being encouraged to continue enrolling.

## Survey reveals gap in university access

from John Walshe

DUBLIN  
The middle and upper classes are well represented in Irish universities. So too are farmers' children, but the offspring of semi-skilled and unskilled workers are seriously under-represented.

These are among the conclusions to be drawn from the first national survey of the socio-economic background of full-time students attending the state's five universities colleges and polytechnics.

The details are published in the latest annual statistical report from the higher education authority, a statutory body charged with co-ordinating state investment in higher education.

The latest report covers the academic year 1978-79 when there were 21,440 male and 15,716 female students in full-time higher education. This was an increase of around 4,000 on full-time enrolments for the year 1975-76.

The socio-economic background details relate to the 23,133 students attending university or the National Institute for Higher Education in Limerick. The remainder were in a variety of institutions, art colleges, technical, teacher training, etc.

Twelve different social groupings were used, the classification being the same as that in the 1971 census of population (the latest detailed census available). In the academic year under review there were 3,915 farmers' children in the six colleges surveyed (in the 1971 census, one in every five Irish-born students was classified as farmers).

There were only 167 children of agricultural workers in the same institutions, 14.3 per cent of the total population. The professional classes (higher and lower) did much better. Although they made up only 6.7 per cent of the total population in the last census, they had 4,817 children in the colleges reviewed.

Employers and managers (5.1 per cent of total population) had 3,742 while skilled employees, insurance brokers, pilots (2 per cent of population) and 2,197 children in the colleges.

The two non-manual groups, clerks, draughtsmen and bus drivers, made up over a fifth of the population in the last census but had only 3,235 sons and daughters in the colleges.

The second biggest social category after farmers in the population at large were skilled manual workers—16.5 per cent of the total, but they had only 1,575 children in the colleges.

Semi-skilled and unskilled fares even worse. They made up a seventh of the total population but there were only 634 young people from these social groups in the six colleges under review. The socio-economic background of the remainder was unavailable.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

leges, technical, teacher training, etc.

Twelve different social groupings were used, the classification being the same as that in the 1971 census of population (the latest detailed census available). In the academic year under review there were 3,915 farmers' children in the six colleges surveyed (in the 1971 census, one in every five Irish-born students was classified as farmers).

There were only 167 children of agricultural workers in the same institutions, 14.3 per cent of the total population. The professional classes (higher and lower) did much better. Although they made up only 6.7 per cent of the total population in the last census, they had 4,817 children in the colleges reviewed.

Employers and managers (5.1 per cent of total population) had 3,742 while skilled employees, insurance brokers, pilots (2 per cent of population) and 2,197 children in the colleges.

The two non-manual groups, clerks, draughtsmen and bus drivers, made up over a fifth of the population in the last census but had only 3,235 sons and daughters in the colleges.

The second biggest social category after farmers in the population at large were skilled manual workers—16.5 per cent of the total, but they had only 1,575 children in the colleges.

Semi-skilled and unskilled fares even worse. They made up a seventh of the total population but there were only 634 young people from these social groups in the six colleges under review. The socio-economic background of the remainder was unavailable.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

leges, technical, teacher training, etc.

Twelve different social groupings were used, the classification being the same as that in the 1971 census of population (the latest detailed census available). In the academic year under review there were 3,915 farmers' children in the six colleges surveyed (in the 1971 census, one in every five Irish-born students was classified as farmers).

There were only 167 children of agricultural workers in the same institutions, 14.3 per cent of the total population. The professional classes (higher and lower) did much better. Although they made up only 6.7 per cent of the total population in the last census, they had 4,817 children in the colleges reviewed.

Employers and managers (5.1 per cent of total population) had 3,742 while skilled employees, insurance brokers, pilots (2 per cent of population) and 2,197 children in the colleges.

The two non-manual groups, clerks, draughtsmen and bus drivers, made up over a fifth of the population in the last census but had only 3,235 sons and daughters in the colleges.

The second biggest social category after farmers in the population at large were skilled manual workers—16.5 per cent of the total, but they had only 1,575 children in the colleges.

Semi-skilled and unskilled fares even worse. They made up a seventh of the total population but there were only 634 young people from these social groups in the six colleges under review. The socio-economic background of the remainder was unavailable.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education, in particular, it has called for financial improvements in the higher education grants system to help increase the university participation by those from working class backgrounds. At present about a quarter of the university students are on grants which are awarded on a means test basis to those who get four honours in their secondary school leaving certificate examination.

The Union of Students in Ireland claims these figures prove that various government measures have not done enough to promote real equality of access to education



the 1990s, the number of people in the United States who are 65 years of age or older is projected to increase from 20 million to 35 million, and the number of people 75 years of age or older is projected to increase from 10 million to 15 million (U.S. Census Bureau, 1997).

circle starting in primary education and coming full circle in higher education, qualified teachers of maths and little ability and even less motivation for the subject pass on their skills to the majority of pupils. It is a bitter irony to see the main

remote development is the primary. Increasing applications in the area will lead to a high demand for good maths and science graduates by industry at the same time as the teaching profession needs to double its numbers in that area to ensure that we have a population able to cope with the microcomputer age.

# PROFILE

He was educated at a preparatory school near Crowborough and Sturminster, and it was at the time of these that his ambition was formed at the age of 12. Ten years later he can remember motives. The first was that his

ultimate direction of the French Revolution, the historian, Georges Lafabvre, gather the material for his various books on the armies of revolutionary France, he visited more than 100 départements of France, spending a long time in Lille, Rouen, and Marseilles, and missing out only one region of France, strangely per-

It is that it has produced a generation of bright graduate students whom he can't interfere with his enthusiasm for France. His students have been an eclectic group in their ideologies and interests; the only thing they have perhaps shared is Cobb's enthusiasm for regional history, an enthusiasm he has fostered by running what



He dismisses as "padding" and his most bitter condemnation is reserved for sociology—"the midwintery history of a detestable and odious subject which will destroy any historian who gets involved with it." He also admits that the history class borrows (like the

هكذا في الأصل





**John O'Leary sets the scene for the Commonwealth Education conference in Sri Lanka**

*[The following page contains extremely faint, illegible markings.]*

100-443887-100

**RECEIVED**

**Abstract**

\_\_\_\_\_

[illegible]

1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 26

...the

[illegible]

John 1:16



1875



# John Seeley

## Historian of the struggle for liberty

**Peter S**

**Peter Sled is a research student**  
**of Emmanuel College, Cambridge.**



**Noticeboard is compiled  
by Patricia Santinelli and  
Mila Goldie**

**Appointment:**

**Stirling**  
Senior Lecturers: Dr D. M. Pryor (biology); O. J. Karolyi (music); J. P. Lehmann (history); R. A. Doherty (philosophy); Dr R. J. Ruffell (economics). Lecturer: J. M. Hulley (botany).

**Bradford**  
**Director of the Microprocessor Applications Centre:** Dr J. J. C. Sutton.  
**Simmons Reader:** Dr J. Salter (chemical engineering).  
**Professor:** D. England and J. A. Smith (physical and analytical chemistry); J. Manjula (project planning control, Lectureship in Chemical Engineering); J. W. Ward (chemical engineering); J. W. Ward (physics). **Honorary Visiting Research Fellow:** A. J. Beaman (chemical engineering).  
**Postgraduate studies:** J. W. Ward (postgraduate technology); J. G. E. Gilbey (postgraduate school of studies in industrial technology); J. W. Ward (postgraduate school of studies in industrial technology). **Honorary Visiting Lecturer:** J. W. Ward (chemical engineering). **Honorary Visiting Lecturer:** Dr Elmer C. Smith (chemical engineering).  
**Supplies:** J. W. Ward (chemical engineering).

17.16 Personal and Ref  
Information Studies

[illegible]

*G. S. Boulton is reader in environmental sciences at the University of East Anglia.*

The subjects dealt with include nucleophilic substitution at saturated and unsaturated carbon atoms, addition reactions to unsaturated organic systems (carbon-carbon, carbon-nitrogen, and carbon-oxygen), and substitution reactions.

from areas more generally discussed by the organic chemist, to those considered the province of the organometallic chemist, for example, hydroformylation, transition metal alkyls, metal-catalyzed alkene isomerizations, and homogeneous hydrogenation).

It is doubtful whether such a wide range of material presented in such an accessible and readable form will ever appear. The book is commendably free of errors, and with minor reservations can be recommended both to undergraduates (especially chapters 1 and 2) and, as an introduction to the use of concepts and methods, to the practicing synthetic chemist. It is suspected that even coordination chemists will find it stimulating, informative and useful.

G. J. Leigh is at the ARC Unit of Nitrogen Fixation, University of Sussex.

Tuesday August 5	
7:00-7:30	Understanding Trade and Trade Policy: The American Trade Policy Process
7:30-8:00	Chemistry: Geographical and Environmental Chemistry
8:00-8:30	Algebra: Algebraic Approach to the Study of the Sine Function
8:30-9:00	Math: Calculus
9:00-9:30	Math: Calculus
9:30-10:00	Math: Calculus
10:00-10:30	Math: Calculus
10:30-11:00	Math: Calculus
11:00-11:30	Math: Calculus
11:30-12:00	Math: Calculus
12:00-12:30	Math: Calculus
12:30-1:00	Math: Calculus
1:00-1:30	Math: Calculus
1:30-2:00	Math: Calculus
2:00-2:30	Math: Calculus
2:30-3:00	Math: Calculus
3:00-3:30	Math: Calculus
3:30-4:00	Math: Calculus
4:00-4:30	Math: Calculus
4:30-5:00	Math: Calculus
5:00-5:30	Math: Calculus
5:30-6:00	Math: Calculus
6:00-6:30	Math: Calculus
6:30-7:00	Math: Calculus
7:00-7:30	Math: Calculus
7:30-8:00	Math: Calculus
8:00-8:30	Math: Calculus
8:30-9:00	Math: Calculus
9:00-9:30	Math: Calculus
9:30-10:00	Math: Calculus
10:00-10:30	Math: Calculus
10:30-11:00	Math: Calculus
11:00-11:30	Math: Calculus
11:30-12:00	Math: Calculus
12:00-12:30	Math: Calculus
12:30-1:00	Math: Calculus
1:00-1:30	Math: Calculus
1:30-2:00	Math: Calculus
2:00-2:30	Math: Calculus
2:30-3:00	Math: Calculus
3:00-3:30	Math: Calculus
3:30-4:00	Math: Calculus
4:00-4:30	Math: Calculus
4:30-5:00	Math: Calculus
5:00-5:30	Math: Calculus
5:30-6:00	Math: Calculus
6:00-6:30	Math: Calculus
6:30-7:00	Math: Calculus
7:00-7:30	Math: Calculus
7:30-8:00	Math: Calculus
8:00-8:30	Math: Calculus
8:30-9:00	Math: Calculus
9:00-9:30	Math: Calculus
9:30-10:00	Math: Calculus
10:00-10:30	Math: Calculus
10:30-11:00	Math: Calculus
11:00-11:30	Math: Calculus
11:30-12:00	Math: Calculus
12:00-12:30	Math: Calculus
12:30-1:00	Math: Calculus
1:00-1:30	Math: Calculus
1:30-2:00	Math: Calculus
2:00-2:30	Math: Calculus
2:30-3:00	Math: Calculus
3:00-3:30	Math: Calculus
3:30-4:00	Math: Calculus
4:00-4:30	Math: Calculus
4:30-5:00	Math: Calculus
5:00-5:30	Math: Calculus
5:30-6:00	Math: Calculus
6:00-6:30	Math: Calculus
6:30-7:00	Math: Calculus
7:00-7:30	Math: Calculus
7:30-8:00	Math: Calculus
8:00-8:30	Math: Calculus
8:30-9:00	Math: Calculus
9:00-9:30	Math: Calculus
9:30-10:00	Math: Calculus
10:00-10:30	Math: Calculus
10:30-11:00	Math: Calculus
11:00-11:30	Math: Calculus
11:30-12:00	Math: Calculus
12:00-12:30	Math: Calculus
12:30-1:00	Math: Calculus
1:00-1:30	Math: Calculus
1:30-2:00	Math: Calculus
2:00-2:30	Math: Calculus
2:30-3:00	Math: Calculus
3:00-3:30	Math: Calculus
3:30-4:00	Math: Calculus
4:00-4:30	Math: Calculus
4:30-5:00	Math: Calculus
5:00-5:30	Math: Calculus
5:30-6:00	Math: Calculus
6:00-6:30	Math: Calculus
6:30-7:00	Math: Calculus
7:00-7:30	Math: Calculus
7:30-8:00	Math: Calculus
8:00-8:30	Math: Calculus
8:30-9:00	Math: Calculus
9:00-9:30	Math: Calculus
9:30-10:00	Math: Calculus
10:00-10:30	Math: Calculus
10:30-11:00	Math: Calculus
11:00-11:30	Math: Calculus
11:30-12:00	Math: Calculus
12:00-12:30	Math: Calculus
12:30-1:00	Math: Calculus
1:00-1:30	Math: Calculus
1:30-2:00	Math: Calculus
2:00-2:30	Math: Calculus
2:30-3:00	Math: Calculus
3:00-3:30	Math: Calculus
3:30-4:00	Math: Calculus
4:00-4:30	Math: Calculus
4:30-5:00	Math: Calculus
5:00-5:30	Math: Calculus
5:30-6:00	Math: Calculus
6:00-6:30	Math: Calculus
6:30-7:00	Math: Calculus
7:00-7:30	Math: Calculus
7:30-8:00	Math: Calculus
8:00-8:30	Math: Calculus
8:30-9:00	Math: Calculus
9:00-	

G. J. Leigh is at the ARC Unit of Nitrogen Fixation, University of Sydney.

[illegible]

## SPECIAL ANNOUNCEMENTS

Northwestern University is presently accepting nominations for the William A. Patterson Distinguished Chair in Transportation. This endowed position has been established for an individual with outstanding qualifications as a scholar in the field of Transportation. Since this is a chair without prior designation as to department, the appointee will be able to affiliate with the appropriate department or departments of his or her choice at Northwestern. The endowment provides for ample resources for salary, fringe benefits, staff and research support.

Northwestern University has a long-established tradition of excellence in research and teaching in a wide variety of disciplinary areas related to the field of transportation. A rich agenda of research, activities and interests includes studies related to both the public and private sectors in transportation, as well as the transportation of both people and commodities.

Nominations, for and inquiries about the Patterson Chair should be directed to Professor Joseph L. Scholer, Chairman, William A. Patterson Distinguished Chair Search Committee, The Transportation Center, Northwestern University, 2001 Sheridan Road, Evanston, IL 62021, U.S.A.

prompt responses are encouraged. Northwestern University is an Equal Opportunities Employer.







## Polytechnics continued



## Plymouth Business School

### HEAD OF DEPARTMENT OF BUSINESS STUDIES

(READVERTISEMENT)

Salary: £11,304-£12,561

(under review)

The Department is responsible for Business Studies in the Plymouth Business School, the other Department in this Faculty being Management Studies.

A range of undergraduate and professional courses are offered covering the disciplines of Accounting, Economics and Law. Postgraduate and post experience work is also on offer. Suitable candidates can also be considered for the title of Professor under procedures in the Polytechnic.

Application forms to be returned by Friday, 22nd August, 1980 can be obtained with further particulars from the Personnel Officer, Plymouth Polytechnic.

Drexel Circus, Plymouth, Devon, PL4 8AA

## LIVERPOOL POLYTECHNIC

### DEPARTMENT OF MANAGEMENT STUDIES

#### LECTURER II/SENIOR LECTURER IN MARKETING MANAGEMENT

£4,651-£9,039 p.a.

Applicants should have an appropriate first degree and management experience in consumer marketing. A working knowledge of Export Marketing would be an advantage as would some previous lecturing experience.

PLEASE QUOTE REFERENCE LP/425

#### TEMPORARY LECTURER II/SENIOR (MARKETING MANAGEMENT)

£4,651-£9,039 p.a.

This is a temporary appointment from 1st September, 1980, to 1st August, 1981. Applicants should have an appropriate first degree and management experience in consumer marketing. A working knowledge of Export Marketing would be an advantage as would some previous lecturing experience.

PLEASE QUOTE REFERENCE LP/425

Closing date is 14 days from the appearance of this advertisement. Applications forms and further particulars from the Personnel Office, Liverpool Polytechnic, 2 Rodney Street, Liverpool L1 2UA. Tel: 051-506 8120.

Previous applicants will be automatically reconsidered.

## The Polytechnic of Wales

### Politechnic Cymru

#### DEPARTMENT OF SOCIAL STUDIES

#### RESEARCH DEMONSTRATOR (WOMEN'S HISTORY)

Candidates with a good honours degree in History are invited to apply for the above post. The successful applicant will be based in the department's History section. The successful applicant will work with Dr. Dafydd Iwan on a project on women's history in Wales. The successful applicant will be expected to contribute to the department's research and to the development of its research programme. The successful applicant will be expected to contribute to the department's research and to the development of its research programme. The successful applicant will be expected to contribute to the department's research and to the development of its research programme.

Bristol

The Polytechnic

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be automatically reconsidered.

## LEICESTER

### THE POLYTECHNIC

#### COMPUTER ACCOUNTING OFFICE

Applications are invited from graduates and those with equivalent qualifications in computing, business and public administration for the post of **COMPUTER ACCOUNTING OFFICER**. The successful candidate will be responsible for the implementation of computer systems and for the development of the department's research programme. The successful candidate will be expected to contribute to the department's research and to the development of its research programme.

Previous relevant experience would be an advantage but not essential. The post is full-time and involves a high degree of responsibility. The successful candidate will be expected to contribute to the department's research and to the development of its research programme.

Salary: £5,000 to £6,311 per annum (increase pending). Application forms and further particulars from the Personnel Officer, Leicester Polytechnic, PO Box 100, Leicester LE1 7RH. Tel: 0533 511111. Closing date: August 30, 1980.

## NEWCASTLE UPON TYNE

THE POLYTECHNIC

SCHOOL OF APPLIED SOCIAL SCIENCES

TEMPORARY LECTURER II/SENIOR

RESEARCH METHODS &amp; STATISTICS

Required to teach for 16

hours a week for 32 weeks

per annum. Closing date: 14

August 1980. Applications

should be sent to the

Personnel Officer, Newcastle

Polytechnic, PO Box 100,

Newcastle upon Tyne, NE1 8ST.

Previous applicants will be

automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be

automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be

automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be

automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be

automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be

automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be

automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be

automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be

automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be

automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be

automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be

automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be

automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be

automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be

automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be

automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be

automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be

automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be

automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be

automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be

automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be

automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.

Closing date: 14th August 1980.

Previous applicants will be

automatically reconsidered.

The Polytechnic of Wales

Politechnic Cymru

Department of Social Studies

Research Demonstrator (Women's History)

Applications should be sent to the

Personnel Officer, The Polytechnic of Wales,

P.O. Box 100, Bristol, Avon, BS1 1PH.







